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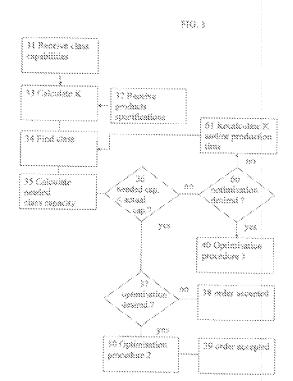
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- (54) A computer system for automatically matching the requirements from a customer with the capabilities of a supplier
- (57) A computer system for automatically matching the requirements from a customer with the capabilities of a supplier of a complex product built up of modules. The system comprises a digital database with specifications for modules and comprises a classification scheme with a number of supply classes. Each supply class is associated with a range of complexity factors and aha a class capacity factor expressing the supply capacity of the specific classes relative to the total supply capacity of the supplier. The system is configured to
- determine a complexity factor dependent on the complexity of the product.
- determine the specific supply class associated with the complexity factor,
- determine a needed supply capacity for supplying the product;
- compare whether the needed supply capacity is less than or equal to the capacity factor of the specific class and only to accept an order for supply of a product, if this is the case.



Description

PIELD OF THE INVENTION

[9801] The present invention relates to a computer system for automatically matching the requirements from a customer with the capabilities of a supplier of a complex product built up of modules.

BACKBROUND OF THE INVENTION

[0002] When a representative of a supplier for a complex product, such as a conveyor for an airport, estimates the costs for the product, a number of factors are taken into account. One of the key factors is the size and complinsity of the final product, but a number of other factors may influence the final costs, such as the time for delivery and necessary public approvals. Thus, once the demand of the customer has been identified, an offer from the producer is worked out at the company and submitted to the customer for acceptance or further modification. Typically, the representative, when visiting a potential oustomer, is not able to tell the potential customer an approximate price or even the time schedule for the product during the first meetings, because the production time is dependent on the complexity, and the price is dependent on both the complexity and the required delivery time by the customer. A short delivery time may require that large paris of the production capacity are working emiraly on a single product, which may be counteracting rationalised use of the production capacity.

(9003) Once the representative of the supplier together with the customer has worked out the necessary components of the complex product, typically emither division in the company is working out the costs, in certain cases, the posts and production time may be reduced substantially, if certain components are substituted by others with unity a slight modification of the product as experienced by the customer However, this kind of optimisation may require a large number of iterations of the offer from the supplier and the specifications from the customer, which in turn requires time and effort from both sides. As a result, the oustainer may pay much more than necessary for the product, because the customer is not exert of the fact that a elight modification of the product may save a large part of the costs, in turn, the supplier is not aware of the fact that a slight modification for saving costs may aill satisfy the needs of the outtomer and may be used to optimise the entire production.

[0004] It is therefore desirable to find means that would ease the process for dimensioning complex products at an earlier stage taking into account the requirements of the oustomer but also decisive factors, such as production capacity, for the supplier.

DESCRIPTION / SUMMARY OF THE INVENTION

[0008] It is therefore the object of the invention to pro-

vide a system to facilitate the design of complex products in relation to the needs of the customer and the capabilities of the supplier. Especially, if is the purpose of the invention to provide a system that can be used by the representative during the first meetings with the customer in order to work out the iterations on-site in order to find the solution that, on the one hand, satisfies the customer and, on the other hand, takes into account the supplier's capabilities, such that also the supplier may optimise the earnings.

(0006) This object is achieved by a computer system according to the invention for autometically matching the requirements from a customer, for example delivery of a censin product at a given time for a given price, with the capabilities of a supplier of a complex product built up of modules, for example production and assembly capacities and production costs. The system comprises a digital delabase containing apecifications for the modules making up the product. The detabase also comains a classifloation scheme with a number of supply classes, for example a first cines for standard products, a second class for more complex products and a third class for products requiring special development. Each supply class is asappliated with a range of complexity factors, for example a factor of between 1 and 1.2 for sternlard products, a factor of between 1-2 and 1,5 for more complex products, and a factor of higher than 1.5 for producte requiring special development. Each supply class is associated with a class capacity factor expressing the supply capacity of the specific classes relative to the total supply capacity of the supplier. For example the capacity factor of products or modules in the first class with standard products may be 80%, which is relatively high in order for the supplier to earn a certain basic amount for standard products. The capacity factors of the second and third class may be 25% each in order to be able to deliver more difficult products on demand, even though the earnings may be lower due to the additional man power that is necessary or the more difficult production system required.

[0007] The system according to the invention comprisas a computer that is configured to autometically determine a complexity factor, for example 1.3, dependent on the complexity of the product. For example, the computer may assoulate a complexity factor dependent on the modilles making up the product and in dependence of the work necessary for the assembly of the modules. Furthermore, the system is configured to determine the specific supply class associated with the complexity factor, for exemple the second class to which the complexity factor 1.3 belongs. As a further step, a needed supplier capacity is determined for supplying the product, for exsimple 20% for the seizind place, and it is determined whether the needed supplier capacity, for example the 20%, is less than or equal to the capacity factor, for example 25%, of the specific class and only to accept an order for supply of a product, if this is the case

[0008] The system eccurding to the invention is an auturnated computer system for a representative of the supplier company, where the system is used to calculate, whether a product impuested by a customer fills into the parameter set by the company. For example, if the product requested by the customer does not fill to the parameters, the representative may not be able to sell the product. Primarily, the system is implemented in a portable computer in order for the representative to be able to construct a solution in dependence of the requirements of the customer at the customer's alle, though the implementation in a portable computer is not strictly necessary for the invention. For example, the representative may carry a ponable computer with a wireless connection to a remote database.

[0009] A number of computers may be carried by different representatives, where all computers are connected through a wireless digital data network to a common remote detabase that is dynamically updated at all times such that the representatives have access to the correct. updated data available. Alternatively, the representatives do not need to carry a computer with them but have access to the computer of the system and the database through the internet. Thus, any computer connected to the internet or other similar data network may be used to get access to the computer of the system and the database. Access may be given by an internet portal with - as a corresponding user interface such that product configuration and calculation can be performed through this internel portal. Likewise, the customer may use the interns) portal to find a suitable product configuration. As a further embodiment, the program for calculation and the dambase or part of the database may be stored on a storage medium, for example a CD rom, for product configuration on a computer that is selected by the user. [0010] in a further embodiment, the class capacity factor is time dependent and variable in dependence of the - #5 requested delivery time. For example, the capacity factor of 25% of the second class may be increased if the delivery time is long, because the supplier may schedule the supply of other products accordingly and get more capacity in this class by reamanging deliveries to other customers.

[0011] The capacity factors may express the entire production capacity of a supplier, in this case, the original 50% overall capacity of the first class may be reduced to 20%, because other products require the remaining 30% of the first class almady, in this case, it is necessary that the capacity factors dynamically are updated in dependance of the actual supply capacity of the supplier. Such an update may be performed in each representative's portable computer through a wireless connection or the update may be performed in a common accessible remote distabase.

[0012] Also, it may be possible that the capacity of the first class is increased to 60% in total in case that there are no products in the second or third class in production. Thus, by dynamically updating the classes, different representatives may work out offers for the oustumers without the risk that the sum of the offers requires more pro-

duction capacities than entirely available

(0013) In a practical emboritment, the complexity factor is a sum of weighted partial complexity factors. For example, the complexity factor K for a product may be expressed as a weighted sum $K = G_1K_1 + G_2K_3 + G_4K_4$ while G_1 is the weighting factor and K_4 is the partial complexity factor. Such a partial complexity factor may be associated with production complexity, production time, complexity of the assembly of the product, time for essentially of the product, wan necessary approvals in connection with the supply of the product.

(0014) In addition, the weight factors may be dependent on the acceptable delivery time or the acceptable costs or both. For example, if it is important that the delivery time is short, it is more difficult to deliver the product as other orders have to be delayed, which increases the weighted complexity factor. However, if the customer is willing to pay an additional price, this may reduce another weighted complexity factor, such that the lotal complexity fector ends in the acceptable range. On the other hand, If a long delivery time is acceptable by the customer, the weighting factor of the related complexity factor may be low, because this gives the supplier the chance to place the order in a convenient location in the production line. [0015] In a further embodiment, the system is configured to fragmentise the product into a number of modules. For each module, a module complexity factor and the associated supply class is determined. The needed module supplier capacity for each module is found to find whether all of the needed module supplier capacities its into the class capacity factors. If the module supply capacities when grouped are less the maximum capacities, the product order may be accepted.

[0016] In an even further embodiment, the system is configured to determine a delivery time for each module in dependence of a time dependent supply capacity in the respective class associated for each module and configured to calculate in dependence of the delivery time for each module a sequence of module assembly actions and check whether the complete sequence of actions frints a final deading for the entire assembly of the product. If the assembly time is long, the production may be stretched for delivery of modules only at the time, where the module is needed for assembly. This reduces storage time for the modules at the producer's or customer's alse and leaves more freedom for the supplier to optimise the production lines to satisfy as many customers as possibile.

[0017] For optimisation of such a process, a sequence may be calculated for production of the modules and in dependence thereof an assembly sequence may be calculated. Then, the assembly sequence may be checked whether it matches a desired deadline for the entire assembly of the product. If a match is not achieved, the production and assembly sequence may be changed iteratively until a match is found or until the time for entire assembly is the earliest possible. This earliest possible time may be used as a proposal to the customer for ear-

liest possible delivery of the product.

[0018] In a more advanced embodiment, the computer system is configured to receive tolerance ranges for specifications of the product and automatically determine a complex product having product specification within the tolerance ranges together with its complexity factor. This complexity factor may be compared with a predetermined threshold complexity fector, whether the produch is acceptable. If the complexity factor is higher than the threshold, the products may be tranmentised into a number of modules with corresponding module complex-By factors, in order to reduce the overall complexity fector, an faralive process may be used, where modules with a high complexity factors are substituted with modules. having lower complexity factors until the complexity facfor is reduced, in this losse, it is st all times assured that the product specifications are still within the tolerance ranges. The iterative substitution may continue until the complexity factor is equal to or below the threshold complaxity factor, or until the complexity factor is minimised. in the latter case, the complexity factor may be further reduced by prolonging the delivery time or by increasing the price, or the order may be accepted only after special agreement between the representative of the supplier and a higher instance of the supplier, for example the 25 director of the supplier company.

[0019] When a representative of the supplier is located at the customer's site, the actual class ospscities reflecting the actual supply papacity of the supplier in the different classes may be submitted to the portable computer. of the representative as digital data from a central server. This way, the computer of the representative is siways updated, for example through a wireless digital data network, such as a GPRS retwork, which is necessary, aspecially, if there are a number of representatives actively. salling products at effectively the same time. As soon as a product sale is agreed on, the server calculates new cless aspecities, and optionally new weighting feators. and updates all the computers of the representatives with the new data in order to optimise production and sale. [0020] The above examples are for illustration only and do not limit the invention in any way.

SHORT DESCRIPTION OF THE DRAWINGS

[0021]. The invention will be explained in more detail with reference to the drawing, where

- FIG. 1 a and billipstrate the invention schematically,
- FIG. 2 Wustrates the detabase,
- FIG. 3 Businese the software procedure of the computer system by a flow diagram.
- FIG. 4 is a flow diagram for the first iterative optimisation procedure.
- FIG. 5 is a flow diagram for the second literative optimisation procedure.

DETAILED DESCRIPTION / PREFERRED EMBODI-MENT

(0022) FIG. 1s illustrates the invention schematically in a first embodiment. A computer system, preferably comprising a portable computer t as indicated, is laind by a representative 4 of the supplier 2 for metching me requirements from a customer 2 with the capabilities of a supplier 3. The computer system comprises a dighel detabase 5 containing specifications for the modules making up the product. The digital database 5 may be accessible through a server system 10 associated with the supplier 3. Alternatively, the database 5 may be accessible through the server system 10 or directly by a wireless link 12. The computer 1 may have a database 5" that comprises some or all of the data from the remote database 5 and which is updated regularly with data from the remote database 5. If an order has been accepted by one specific representative, the remote database 5 is updated with this information by receiving data from the computer of the apacific representative. Afterwards, the delabases 5" in the computers carried by the other representatives are updated by receiving data from the remote detabase 5.

[9020] An alternative embodiment is illustrated in FIG. 1b, where the customer 2 and/or the representative 4 have access to a computer I that is functionally connected to the internat 11, such that palculations can be performed on a computer/server 1.0 with access to the database 6.

[0024] The product may be a conveyor as it is used in airports. Such curveyors are made up of a plurality of modules that are assembled after delivery. A conveyor system is a complex product that takes substantial time to produce and deliver, Some of the modules are standard products while others have special requirements and have to be constructed expensitly in accordance with the requirements of the customer.

(0025) The supplier 3 may allocate different production capacities on their production lines for different modules. For example, a first production capacity may be used for standard products, whereas other production capacities are used for special constructions. Often, suppliers allooate a certain part of the production capacities for apecial constructions, for example 25% of the total production capacity. Other, the highest turnover and earning are achieved with those products that are standard for the supplier. However, special modules may be necessary to deliver in order to estisfy a bross group of customers. and, in addition, it may imply increase in the know how of the supplier, which is beneficial in the long run. Thus, typically the supplier allocates production capacities to certain categories of products with the aim that there are products in all categories must of the time in order to use the production capacities most efficiently.

[0020] Officulties arise, if different representatives of the supplier self a high number of special products at the same time. Once, the allocated production capacities for

special products are filled up with orders, all representsilves have to be contected in order to submit information about the remaining capacities to them. However, between the signing of an order and the allocation of production capacities, substantial time may pass, and orders may have been taken in which cannot be delivered within the time schedule for the order, because the intake of orders and the capacities of the production are not matched in real time.

[8927]. The invention has the aim to improve this situation. The computer system comprises a digital database 5 as illustrated in FIG. 2 containing specifications for the modules making up the product. The database 5 also contains a classification scheme 6 with a number of supply classes, for example a first class 7 for standard products, a second class 8 for more complex products and a third class 8 for products requiring special development. The database may contain more classes than the three classes 7, 8, 9 shown.

[8028] Each supply class 7, 8, 9 is associated with a so range of complexity factors, for example a factor of between 1 and 1.2 for standard products, a factor of between 1.2 and 1.5 for more complex products, and a factor of higher than 1.5 for products requiring special development.

[0029] Each supply class is associated with a class capacity factor expressing the supply capacity of the specific classes relative to the total supply capacity of the supplier. For example the capacity factor of products or modules in the first class 7 with standard products may be 50%, and the capacity factors of the second 8 and third class 9 may be 26% each in order to be able to deliver more difficult products on demand.

[0030] In a specific embodiment, a first class may be related to those products that are standard products which pass the production facilities rather fast. Such products are typically termed Fast Runners. A second class may be related to those product that require more time for production and a third class may be related to products that require a relative long time to produce. These two types of products are typically termed Medium runners and Slow Runners , respectively. All of these may be standard products but require different production time and effort such that a Slow Runner is more expensive to produce than a Fast Runner product. If the production capacity of the class with fast runners is reached, there may be allocated more capacity for Past Runners in one of the other classes. This means in practice that the sizes of the classes are dynamically adjusted in correspondence with the capacity needs of the supplier in order to fulfil the orders of the oustomer.

(9031) Alternatively, the sizes of the classes may be kept constant, but a Fast Runner - If no available capacity in the first class - may get assigned a different K value in order to fit into one of the other classes, for example the Slow Runner. This means in practice that a client can get a Fast Runner produced despite the fact that there for the time being is no capacity for it in such cases.

there may be charged an additional rush fee which counterbalances the additional income for the supplier which would have been achieved when having taken a Slow Runner into the production inclead of a Fast Runner.

[0032] Offen, Past Runners are those products that give a high income but do not contribute to a special customer satisfaction, because the product is a standard product. On the other hand, Slow Runners do not give a high income for the supplier but add to the customer satisfaction, because the customer experiences specialised custom made product solutions satisfying the needs of the specific customer. Thus, the actually used Slow Buryher capacity may reflect the supplier's affort to increase the customer satisfaction, in case that the size of the classes are dynamically adjusted such that the Stow Ausner class sometimes is large and sometimes is ansili. this class is difficult to relate to an overall effort of the supplier to increase the customer satisfaction. This argument favours constant dess sizes. On the other hand, If the Slow Runner class is not filled up, this capacity should be used on Medium Runners or Fast Runners. A solution to this dilemnia is the above mentioned change of the K value such that a Fast Runner product may regarded as a Blow Runner. The product, though in fact being a Fast Runner, adds nevertheless to the customer satisfaction, because the customer gets a specific product delivered faster than would be possible, if it stayed in the Fast Runner class and hed to wait substantial time in order to be produced. Therefore, the K factor may be chosen such that it is dependent on the delivery time. If the delivery time is desired by the customer to be short, the K factor may be larger than for the same product having a large delivery time

[0033] In FIG. 3, a flow diagram is shown illustrating an embodiment for the functioning of the programmed computer. The computer receives 31 figures for the class capacities. The received class capacities may be stored on the computer stationary, or preferably are updated dynamically in accordance with the scrual capacities in dependence of other products in the production facilities. For example, if a number of products with low complexity are produced the production line, the class capacity for low complexity products may be set low and the class capacity for high complexity products set high. A dynamic updating of the class capacities may be performed each time, a contract for an order has been signed such that the delivery capacities are optimised and the supplier facilities exploited in an optimism way.

[0034] With reference to FIG. 3, once the representative has received the product epecifications, these are entered 32 into the computer system through a suitable user interface of the computer system. The system calculates 33 the complexity factor K of the product and finds 34 the corresponding class together with the required estimated capacity 35. If the needed capacity is less than the available capacity 36, the order may be accepted 38. However, if desired 37, it is possible to perform enother optimisation 50, for examples in order to re-

duce the necessary costs for the client or for proposing a different delivery time before the order is accepted 39. If the nesided capacity is higher than the actual capacity, which may indicate that the production capacity is not sufficient, another optimisation procedure 40 may be used, if desired, if no optimisation procedure is required, the production time may be changed \$1 such that production capacity is available at a later stage. Alternatively, the K factor may be changed \$1 is order to allocate space in a different class. In this connection, it may be noticed that in a more advanced embodiment, the production time may be part of the K factor.

[0035] The optimisation procedure 40 is ituarrated in PIG. 4. As the needed class capacity was higher than the svallebis class capacity, a change of the capacities. allocated for the different K factors may be achieved by investigation as to whether the K factor can be reduced in order for the product to fit into a different class. For this reason, the product is parted into modules 41 and complexity factors (K factor) for the modules are investigated - 20 42. For example, it may be investigated, whether the high Kifactor is due to a few highly complicated modules, or whether the high K factor is reflected by each of the modules, in the former case, a substitution 43 of a few modules into less complex modules may change 44 the over- - 28 all K-factor such that the product file 45 into enother class for which the capacity 46 is acceptable and the order can be accepted 47.

(9036) If it is not possible to fit the product into a class with sufficient capacity, the order may be rejected 46. Before the order is rejected, it may be investigated 49, whether the modules may be distributed into the different classes such that the entire product belongs to several classes. This may imply that the delivery time only may be appeared for some of the modules with a later delivery and assembly of other modules.

(997) If desired 45, it is possible to perform another optimisation 50, for example in order to reduce the necessary costs for the client or for proposing a different delivery from before the order is accepted 48.

[0038] The optimisation procedure 50 is illustrated in more detail in PIG. 5. Even though an order may be ready for acceptance, still a certain optimisation may be achieved. For instance, it may be that the product or some of the modules can be produced and assembled at lower. cost, if the customer accepts a longer delivery time. Or, the delivery time can be shortened, if the price is raised, For this, the K fector is iterated 43, 44, 45 by substitution AS of certain module with other modules, in addition, the weighting factors for the partial factors for K may be changed \$1. For example, one of the partiel complexity factors may relate to delivery time, if the delivery time is not so essential, the weighting factor for this corresponding complexity fector may be low and reay even be changed during the iteration in order to find a meigh which allows a product to be delivers at lower cost. The keration may be stopped when a threshold is passed or if a convergence is experienced. This process implies that the

conditions for the customer and for the supplier are opfirmend at the same time.

[0039] As it appears from the foregoing, the invention is an automated process where iterative procedures are used for complex products to achieve an optimised metch between the requirements by the customer and the capabilities of the supplier.

10 Claims

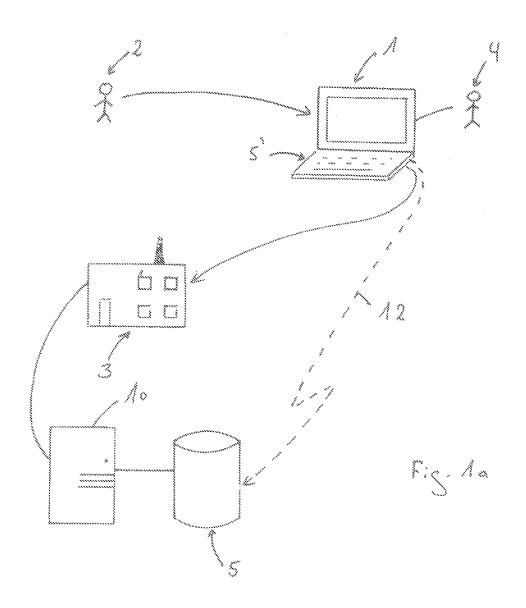
- A computer system for automatically matching the requirements from a customer with the capabilities of a supplier of a complex product built up of modules, the system having a digital database comprising specifications for modules and compraing a classification scheme with a number of supply classes, each supply class being associated with a range of complexity factors and having a class capacity factor expressing the supply capacity of the supplier, the system compraing a computer that is configured to
 - calculating a complexity factor dependent on the complexity of the product,
 - determine the specific supply class annoclated with the complexity factor,
 - Calculate a needed supply capacity for supplying the product.
 - compare whether the needed supply capacity is less than or equal to the capacity factor of the specific class and only to indicate accept of an order for supply of a product, if this is the cause.
- A system according to daim 1, wherein the class capacity factor is time dependent and variable in dependence of the requested delivery time.
- 40 3. A system according to claim 1 or 2, wherein the system is configured to update the class capacity factor dynamically in dependence of the actual supply capacity of the supplier in dependence of other products to be supplied by the supplier.
 - A system according to any preceding claim, wherein the complexity factor is a sum of weighted partial complexity factors.
- 5. A system according to dialm 4, wherein a partial complexity factor is associated with production complexity or the production time or both.
- 6. A system according to claim 4 or 5, wherein a pertial complexity factor is associated with complexity of the assembly of the product or the time for assembly of the product or both.

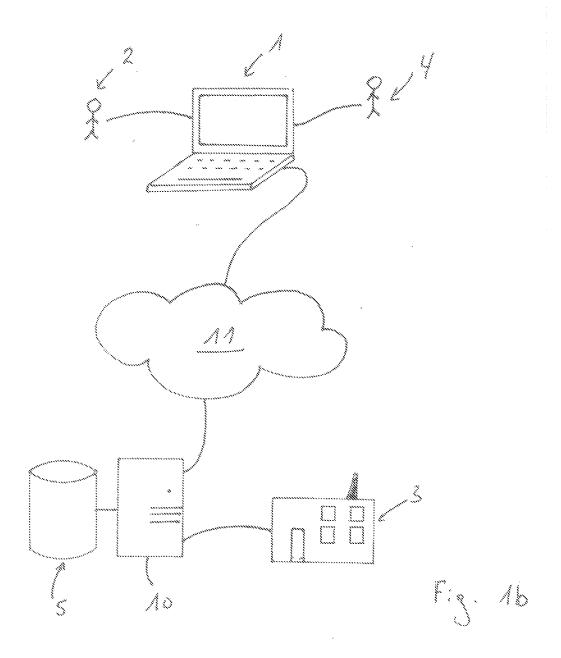
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- A system according to any one of the claims 4-8, wherein a partial complexity factor is associated with necessary approvals in connection with the supply of the product.
- A system according to claim 4, 5, or 5, wherein the perial complexity factor is weighted with a weight factor, the weight factor being dependent on the acceptable delivery time or the acceptable costs or both.
- A system according to any preceding claim, wherein the system is configured to fragmentiae the product into a number of modules.
 - to determine a module complexity factor to each of the modules,
 - to distarmine the supply classes associated with the module complexity factors;
 - to determine a needed module supply capacity for each module.
 - to compare whether all of the needed module supply capacities are less than or equal to the class capacity fectors, and only to accept the supply of a product, if this is the case.
- A system according to plain: 9, wherein the system is positigured to
 - distermine a delivery time for each module in dependence of a time dependent supply capacity in the respective class associated for each module,
 - calculate in dependence of the delivery time for each module a sequence of module assembly actions and check whether the complete sequence of actions fit into a final deadline for the entire assembly of the product.
- A system according to claim 10, wherein the system is configured to
 - calculate a sequence for production of the modules and in dependence thereof calculate an easembly sequence.
 - Check whether the assembly sequence matches a desired deadline for the entire assembly of the product, and if a match is not softweed,
 - change the production and assembly sequence iteratively until a match is found or until the time for entire assembly is the earliest possible.
- A system according to any preceding claim, wherein the system is configured to
 - receive tolerance ranges for specifications of the product;

- determine a complex product having product specification within the tolerance ranges.
- determine the complexity factor of the product,
 provide or receive a threshold complexity factor,
- compare the complexity factor of the product with the threshold complexity factor, and in case that the complexity factor of the product is higher than the threshold complexity factor.
- -fragmentise the product into a number of modules.
- determine a module complexity factor for each of the modules, and
- -iteratively substitute at least one of the modules with a high complexity factor with modules having lower complexity factors until the complexity factor is reduced and the product specifications are still within the tolerance ranges.
- 13. A system according to claim 12, wherein the system is configured to continue the iterative substitution until the complexity factor is equal to or below the threshold complexity factor, or until the complexity factor is minimised.
 - A system econding to any preceding claim, wherein the computer system is a portable computer.
- 15. A system expording to claim 14, wherein the portable computer is configured to receive digital data from a central server, the digital data comprising actual class capacity factors reflecting the actual supply capacity of the supplier in the different classes.

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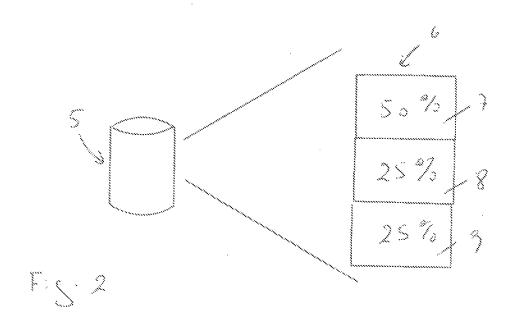
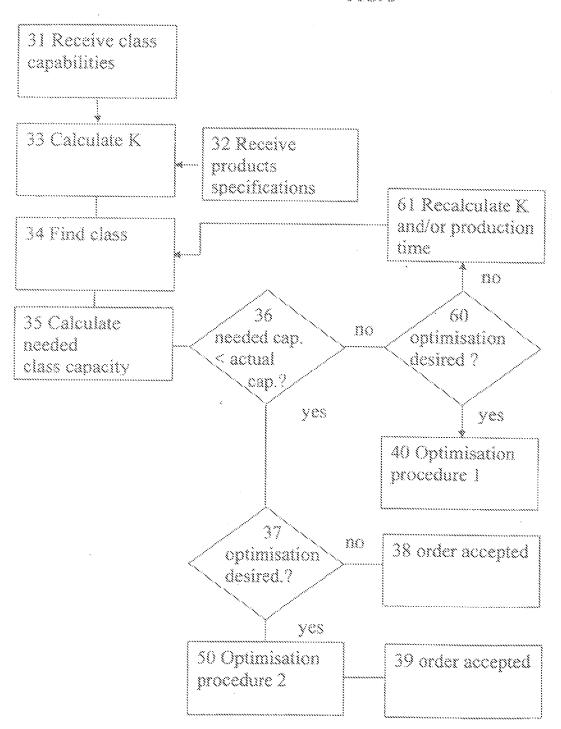
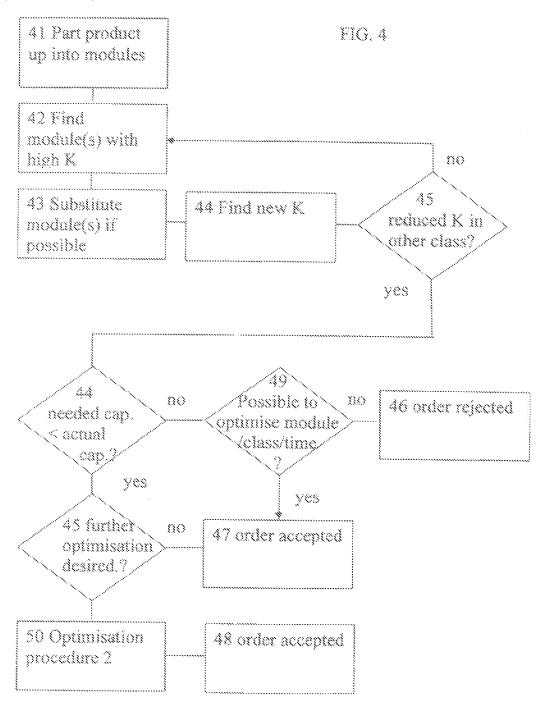


FIG. 3

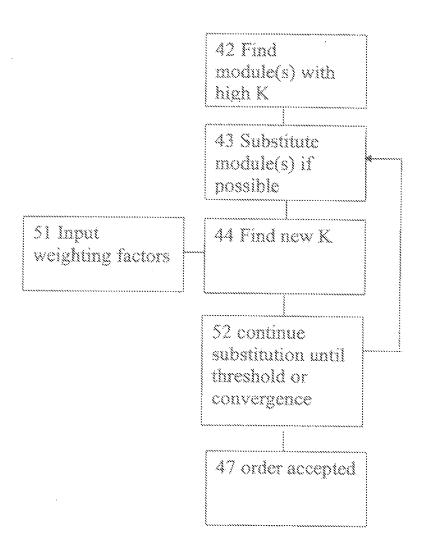


Optimisation procedure 40:



Optimisation procedure 50:

FIG. 5





DECLARATION

Application Number

which under Fulls 45 of the European Patent Convention EP 06 80 8715 shall be considered, for the purposes of subsequent proceedings, as the European search report

OLASSIPPOATION OF THE APPLICATION (190) The Second Disking appeintmental the propert application, dose not conside with the consistence of the EPC to such an extent that it is not possible to early out a reconlight search into the state of the action the basis of all ataims. INV. 605039/90 The claims relate to subject matter excluded from patentability under Art. 52(2) and (3) EPC. Siven that the claims are formulated in terms of such subject matter or merely specify commonplace features relating to its technological implementation, the search examiner could not establish any technical problem which might potentially have required an inventive step to overcome. Hence it was not possible to carry out a meaningful search into the state of the art (Rule 45 EPC). See also Guidelines Part 8 Chapter VIII, 1-3. The problems which are addressed do not appear to require a technical, but rather an administrative/organisational, or business, solution. The implementation of this solution may include the use of generic technical features, however these do not interact to solve any overall technical problem but merely serve their wall-known functions. The applicant's attention is drawn to the fact that a search may be carried out during examination following a declaration of no search under Rule 45 EPC, should the problems which led to the declaration being issued be overcome (see EPC Suideline C-VI, 8.5). From a section Montich 7 September 2006 Heselius, Per

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